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Claims

[1] A joint for plumbing, comprising:

a body 20 having a symmetrical form from the center thereof, the body 20 having stopping parts 21 formed at both sides from the center thereof for stopping a pipe 10 to be inserted into the body 20; extended parts respectively extending from the stopping parts 21 to a predetermined limit of the body 20 for closely contacting and supporting the pipe 10; concave parts 22, each being formed from the extended part to a predetermined limit; tapered parts 23, each having a diameter greater than that of the concave part 22 and gradually narrowed as it goes toward an inlet; and inlets 26, each being formed in such a manner as to be bent in a "L" form at the narrowest end of the tapered part 23 for inserting the pipe 10 thereto;

a packing 27 mounted in the concave part 22 inside the body 20 and being in close contact with the outer peripheral surface of the pipe 10 for providing sealability;

a spring 24 having an end supported by a protrusion of the concave part 22 and the other end located toward the inlet 26 of the body 20, the other end having the final round 24a and an adjacent round forming a circle, which is at right angles to the insertion direction of the pipe 10, the final round 24a being designed in such a manner as to be positioned in parallel with the adjacent round and at a predetermined interval from the adjacent round;

and a stopper 25 inserted between the final round 24a and the adjacent round of the spring 24, which are located toward the inlet 26, wherein a contact surface contacting the tapered part 23 of the body 20 is treated smoothly and a contact surface contacting the pipe 10 has a saw-toothed shape to maximize friction force to the pipe 10, the stopper 25 being greater in hardness than the body 20 or the pipe 10 so that the stopper 25 is inserted between the inner peripheral surface of the body 20 and the outer peripheral surface of the pipe 10 to provide a wedge action to fix the pipe 10 when the pipe 10 is inserted.

- [2] The joint for plumbing according to claim 1, wherein the final round 24a of the spring is separated from the spring 24.
- [3] The joint for plumbing according to claim 1, wherein the packing 27 has an X-shaped section in order to increase a pressed rate and allow the pipe 10 to be easily inserted.
- [4] The joint for plumbing according to claim 1, wherein a dust seal 28 is mounted in the inlet 26 to prevent introduction of dust or sewage from the outside.